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for

Search in ENZYME for: rubredoxin

Release 31, June 2003, and updates up to 13-Jul-2003

Please choose one of the following entries:

1.18.1.1

Rubredoxin--NAD(+) reductase.

(AN: Rubredoxin reductase.

Rubredoxin-nicotinamide adenine dinucleotide reductase.

Dihydronicotinamide adenine dinucleotide-rubredoxin reductase.

Reduced nicotinamide adenine dinucleotide-rubredoxin reductase.

NADH-rubredoxin reductase.

Rubredoxin-NAD reductase.

NADH-rubredoxin oxidoreductase.)

1.18.1.4

Rubredoxin--NADP(+) reductase.

(AN: Rubredoxin-nicotinamide adenine dinucleotide (phosphate) reductase.


Rubredoxin-nicotinamide adenine.

Dinucleotide phosphate reductase.

NAD(P)-rubredoxin oxidoreductase.

NAD(P)H-rubredoxin oxidoreductase.)

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Swiss-Prot Release 41.16 of 11-Jul-2003

TrEMBL Release 24.2 of 11-Jul-2003

- Number of sequences found in [Swiss-Prot](#)₍₆₂₎ and [TrEMBL](#)₍₆₃₎: **125**
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Search in Swiss-Prot: There are matches to 62 out of 130251 entries

HRB_MOOTH (Q9FDN6)

High molecular weight rubredoxin (Nitric oxide reductase NADH:FprA oxidoreductase). {GENE: HRB} - Moorella thermoacetica (Clostridium thermoaceticum)

HUPJ_RHOCA (Q03009)

Probable rubredoxin hupJ. {GENE: HUPJ} - Rhodobacter capsulatus (Rhodopseudomonas capsulata)

NORV_ECO57 (Q8X852)

Anaerobic nitric oxide reductase flavorubredoxin homolog (FIRd homolog) (FlavoRb homolog). {GENE: NORV OR FLRD OR Z4018 OR ECS3566} - Escherichia coli O157:H7

NORV_ECOL6 (P59404)

Anaerobic nitric oxide reductase flavorubredoxin (FIRd) (FlavoRb). {GENE: NORV OR FLRD OR C3265/C3266} - Escherichia coli O6

NORV_ECOLI (Q46877)

Anaerobic nitric oxide reductase flavorubredoxin (FIRd) (FlavoRb). {GENE: NORV OR FLRD OR B2710} - Escherichia coli

NORV_SALTI (Q8Z4C5)

Anaerobic nitric oxide reductase flavorubredoxin (FIRd) (FlavoRb). {GENE: NORV OR FLRD OR STY2962 OR T2742} - Salmonella typhi

NORV_SALTY (Q8ZMJ7)

Anaerobic nitric oxide reductase flavorubredoxin (FIRd) (FlavoRb). {GENE: NORV OR FLRD OR STM2840} - Salmonella typhimurium

NORV_SHIFL (P59405)

Anaerobic nitric oxide reductase flavorubredoxin (FIRd) (FlavoRb). {GENE: NORV OR FLRD OR SF2733 OR S2924} - *Shigella flexneri*

NORV_VIBVU (Q8D4F8)

Anaerobic nitric oxide reductase flavorubredoxin (FIRd) (FlavoRb). {GENE: NORV OR FLRD OR VV21343} - *Vibrio vulnificus*

NORW_ECO57 (Q8X850)

Nitric oxide reductase FIRd-NAD(+) reductase (EC 1.18.1.-) (Flavorubredoxin reductase) (FIRd-reductase) (FlavoRb reductase). {GENE: NORW OR FLRR OR Z4019 OR ECS3567} - *Escherichia coli* O157:H7

NORW_ECOL6 (Q8FEN4)

Nitric oxide reductase FIRd-NAD(+) reductase (EC 1.18.1.-) (Flavorubredoxin reductase) (FIRd-reductase) (FlavoRb reductase). {GENE: NORW OR FLRR OR C3267} - *Escherichia coli* O6

NORW_ECOLI (P37596)

Nitric oxide reductase FIRd-NAD(+) reductase (EC 1.18.1.-) (Flavorubredoxin reductase) (FIRd-reductase) (FlavoRb reductase). {GENE: NORW OR FLRR OR B2711} - *Escherichia coli*

NORW_SALTI (Q8Z4C4)

Nitric oxide reductase FIRd-NAD(+) reductase (EC 1.18.1.-) (Flavorubredoxin reductase) (FIRd-reductase) (FlavoRb reductase). {GENE: NORW OR FLRR OR STY2963 OR T2743} - *Salmonella typhi*

NORW_SALTY (Q8ZMJ6)

Nitric oxide reductase FIRd-NAD(+) reductase (EC 1.18.1.-) (Flavorubredoxin reductase) (FIRd-reductase) (FlavoRb reductase). {GENE: NORW OR FLRR OR STM2841} - *Salmonella typhimurium*

NORW_SHIFL (P59403)

Nitric oxide reductase FIRd-NAD(+) reductase (EC 1.18.1.-) (Flavorubredoxin reductase) (FIRd-reductase) (FlavoRb reductase). {GENE: NORW OR FLRR OR SF2734 OR S2925} - *Shigella flexneri*

NORW_VIBVU (Q8D4F7)

Nitric oxide reductase FIRd-NAD(+) reductase (EC 1.18.1.-) (Flavorubredoxin reductase) (FIRd-reductase) (FlavoRb reductase). {GENE: NORW OR FLRR OR VV21344} - *Vibrio vulnificus*

R20K_CLOPA (P23161)

20 kDa protein in rubredoxin operon (ORF C). - *Clostridium pasteurianum*

R34K_CLOPA (P23160)

34.2 kDa protein in rubredoxin operon (EC 1.6.4.-) (ORF A). - *Clostridium pasteurianum*

ROO_DESGI (Q9F0J6)

Rubredoxin-oxygen oxidoreductase (EC 1.-.-) (ROO) (Rubredoxin oxidase). {GENE: ROO} - *Desulfovibrio gigas*

RUB1_CHLTE (P58992)

Rubredoxin 1 (Rd 1). {GENE: RUB1 OR RBR-1 OR CT1100} - *Chlorobium tepidum*

RUB1_CLOPE (Q8XMB2)

Rubredoxin 1 (Rd 1). {GENE: RUBR1 OR CPE0777} - *Clostridium perfringens*

RUB1_DESDE (P04170)

Rubredoxin 1 (Rd-1). {GENE: RD1} - *Desulfovibrio desulfuricans*

RUB1_METJA (Q58145)

Probable rubredoxin 1 (RD 1). {GENE: MJ0735} - *Methanococcus jannaschii*

RUB1_PSEOL (P12692)

Rubredoxin 1. {GENE: ALKF} - *Pseudomonas oleovorans*

RUB2_CHLTE (P58993)

Rubredoxin 2 (Rd 2). {GENE: RUB2 OR RBR-2 OR CT1101} - *Chlorobium tepidum*

RUB2_CLOPE (P14072)

Rubredoxin 2 (Rd 2). {GENE: RUBR2 OR CPE0780} - *Clostridium perfringens*
RUB2_DESDE (Q93PP8)
 Rubredoxin 2 (Rd-2). {GENE: RD2} - *Desulfovibrio desulfuricans*
RUB2_METJA (Q58150)
 Probable rubredoxin 2 (RD 2). {GENE: MJ0740} - *Methanococcus jannaschii*
RUB2_PSEOL (P00272)
 Rubredoxin 2 (Two-iron rubredoxin). {GENE: ALKG} - *Pseudomonas oleovorans*
RUB2_RHOER (Q9AE63)
 Rubredoxin 2. {GENE: RUBA2} - *Rhodococcus erythropolis*
RUB3_CHLTE (P58025)
 Rubredoxin 3 (Rd 3). {GENE: RUB3 OR RBR-3 OR RUB OR CT2024} - *Chlorobium tepidum*
RUB3_RHOER (Q9AE67)
 Rubredoxin 3. {GENE: RUBA3} - *Rhodococcus erythropolis*, *Rhodococcus* sp. (strain Q15)
RUB4_RHOER (Q9AE66)
 Rubredoxin 4. {GENE: RUBA4} - *Rhodococcus erythropolis*, *Rhodococcus* sp. (strain Q15)
RUBH_METTH (Q50533)
 Possible rubredoxin. {GENE: RDXA OR MTH1352} - *Methanobacterium thermoautotrophicum*
RUBL_BRAJA (P48344)
 Probable rubredoxin hupI. {GENE: HUPI OR BSL6935} - *Bradyrhizobium japonicum*
RUBL_RHILV (P28151)
 Probable rubredoxin hupI. {GENE: HUPI} - *Rhizobium leguminosarum* (biovar viciae)
RUBR_ACICA (P42453)
 Rubredoxin (Rd). {GENE: RUBA} - *Acinetobacter calcoaceticus*
RUBR_ALCEU (P31912)
 Rubredoxin (Rd). {GENE: HOXR} - *Alcaligenes eutrophus* (*Ralstonia eutropha*)
RUBR_ANASP (Q9WWN1)
 Rubredoxin (Rd). {GENE: RUB OR HOXR OR ALR3843} - *Anabaena* sp. (strain PCC 7120)
RUBR_ANAVA (Q9XBL8)
 Rubredoxin (Rd). {GENE: RUB OR HOXR} - *Anabaena variabilis*
RUBR_AZOC (P48343)
 Rubredoxin in uptake hydrogenase operon. {GENE: HUPR} - *Azotobacter chroococcum* mcd 1
RUBR_AZOVI (P30778)
 Rubredoxin (Rd). {GENE: HOXR} - *Azotobacter vinelandii*
RUBR_BUTME (P14071)
 Rubredoxin (Rd). - *Butyrivibrio methylotrophicum*
RUBR_CHLLT (P09947)
 Rubredoxin (Rd). {GENE: RUB} - *Chlorobium limicola* f.sp. thiosulfatophilum
RUBR_CLOAB (Q9AL94)
 Rubredoxin (Rd). {GENE: RD OR CAC2778} - *Clostridium acetobutylicum*
RUBR_CLOPA (P00268)
 Rubredoxin (Rd). - *Clostridium pasteurianum*
RUBR_CLOST (P23474)
 Rubredoxin (Rd). - *Clostridium sticklandii*
RUBR_CLOTS (P19500)
 Rubredoxin (Rd). - *Clostridium thermosaccharolyticum* (*Thermoanaerobacterium thermosaccharolyticum*)
RUBR_DESGI (P00270)
 Rubredoxin (Rd). - *Desulfovibrio gigas*
RUBR_DESVH (P00269)
 Rubredoxin (Rd). {GENE: RUB} - *Desulfovibrio vulgaris* (strain Hildenborough)

RUBR_DESVM (P15412)

Rubredoxin (Rd). {GENE: RUB} - Desulfovibrio vulgaris (strain Miyazaki)

RUBR_HELMO (P56263)

Rubredoxin (Rd). - Heliobacillus mobilis

RUBR_MEGEL (P00271)

Rubredoxin (Rd). - Megasphaera elsdenii

RUBR_METTH (O26258)

Probable rubredoxin (RD). {GENE: MTH155} - Methanobacterium thermoautotrophicum

RUBR_PEPAS (P00267)

Rubredoxin (Rd). - Peptostreptococcus asaccharolyticus (Peptococcus asaccharolyticus)

RUBR_PYRAB (Q9V099)

Rubredoxin (Rd). {GENE: RUB OR PYRAB08920 OR PAB7224} - Pyrococcus abyssi

RUBR_PYRFU (P24297)

Rubredoxin (Rd). {GENE: RUB OR PF1282} - Pyrococcus furiosus

RUBR_SYNY3 (P73068)

Rubredoxin (Rd). {GENE: RUB OR SLR2033} - Synechocystis sp. (strain PCC 6803)

RUBR_TREPA (O83956)

Rubredoxin (Rd). {GENE: TP0991} - Treponema pallidum

RURE_ACICA (P42454)

Rubredoxin-NAD(+) reductase (EC 1.18.1.1). {GENE: RUBB} - Acinetobacter calcoaceticus

RURE_PSEOL (P17052)

Rubredoxin-NAD(+) reductase (EC 1.18.1.1). {GENE: ALKT} - Pseudomonas oleovorans

YRUB_CLOPA (P23171)

Hypothetical glutaredoxin-like 8.6 kDa protein in rubredoxin operon (ORF B). - Clostridium pasteurianum

Search in TrEMBL: There are matches to 63 out of 943344 entries**O05099**

Rubredoxin oxidoreductase homolog - Clostridium acetobutylicum

O05893

RUBB (Rubredoxin) {GENE:RUBB OR RV3250C OR MTCY20B11.25C OR MT3348} - Mycobacterium tuberculosis

O05894

RUBA (Rubredoxin) {GENE:RUBA OR RV3251C OR MT3349 OR MTCY20B11.26C} - Mycobacterium tuberculosis

O26259

Rubredoxin {GENE:MTH156} - Methanobacterium thermoautotrophicum

O28920

Rubredoxin (RD-2) {GENE:AF1349} - Archaeoglobus fulgidus

O29381

Rubredoxin (RD-1) {GENE:AF0880} - Archaeoglobus fulgidus

O86138

Rubredoxin (Fragment) - Clostridium butyricum

O86139

Rubredoxin (Fragment) - Clostridium butyricum

P94698

Rubredoxin-like protein {GENE:RDL} - Desulfovibrio vulgaris (strain Hildenborough)

P95500Rubredoxin {GENE:HUPI} - *Pseudomonas hydrogenovora*P96745Rubredoxin - *Clostridium butyricum*Q46496Rubredoxin {GENE:RUB} - *Desulfoarculus baarsii* (*Desulfovibrio baarsii*)Q54426Rubredoxin reductase (Fragment) {GENE:ALKA} - *Xanthomonas maltophilia* (*Pseudomonas maltophilia*) (*Stenotrophomonas maltophilia*)Q820L6Rubredoxin:rubredoxin-type Fe(Cys)₄ protein {GENE:NE1426} - *Nitrosomonas europaea*Q82UR1Probable rubredoxin reductase {GENE:NE1420} - *Nitrosomonas europaea*Q83AK4Rubredoxin {GENE:CBU1881} - *Coxiella burnetii*Q87AX7Rubredoxin {GENE:PD1686} - *Xylella fastidiosa* (strain Temecula1 / ATCC 700964)Q87U41Rubredoxin {GENE:RUBA OR PSPTO5474} - *Pseudomonas syringae* (pv. tomato)Q87U42Rubredoxin reductase {GENE:RUBB OR PSPTO5473} - *Pseudomonas syringae* (pv. tomato)Q88C12Rubredoxin/rubredoxin reductase {GENE:PP5371} - *Pseudomonas putida* (strain KT2440)Q88C68Rubredoxin {GENE:RUBA OR PP5315} - *Pseudomonas putida* (strain KT2440)Q88C69Rubredoxin reductase {GENE:RUBB OR PP5314} - *Pseudomonas putida* (strain KT2440)Q897B4Protein with rubredoxin/rubrerhythrin domain {GENE:CTC00826} - *Clostridium tetani*Q8A4Q8Rubredoxin {GENE:BT2539} - *Bacteroides thetaiotaomicron*Q8DI94Rubredoxin {GENE:RUB OR TLL1696} - *Synechococcus elongatus* (*Thermosynechococcus elongatus*)Q8FS47Putative rubredoxin reductase {GENE:CE0557} - *Corynebacterium efficiens*Q8KA83Rubredoxin:oxygen oxidoreductase, putative {GENE:CT2285} - *Chlorobium tepidum*Q8KZA2Rubredoxin-like protein {GENE:RLP} - *Desulfovibrio vulgaris*Q8P5R8Rubredoxin {GENE:RUBA OR XCC3268} - *Xanthomonas campestris* (pv. campestris)Q8PH46Rubredoxin {GENE:RUBA OR XAC3414} - *Xanthomonas axonopodis* (pv. citri)Q8R870Rubredoxin {GENE:TTE2154} - *Thermoanaerobacter tengcongensis*Q8RSW5Rubredoxin {GENE:RUBA} - *Synechococcus* sp. (strain PCC 7002) (*Agmenellum quadruplicatum*)Q8TQ92Rubredoxin {GENE:MA1659} - *Methanosarcina acetivorans*

Q8Y1M3

Probable rubredoxin protein {GENE:RSC0667 OR RS01572} - *Ralstonia solanacearum* (*Pseudomonas solanacearum*)

Q8YNK8

Rubredoxin {GENE:ASL4557} - *Anabaena* sp. (strain PCC 7120)

Q93DN0

Rubredoxin reductase {GENE:RUBB} - *Rhodococcus* sp. Q15

Q93DN1

Rubredoxin 2 {GENE:RUBA2} - *Rhodococcus* sp. Q15

Q93DN2

Rubredoxin 1 {GENE:RUBA1} - *Rhodococcus* sp. Q15

Q93UQ0

Rubredoxin {GENE:ALKG} - *Alcanivorax borkumensis*

Q98BL3

Rubredoxin reductase {GENE:MLL5522} - *Rhizobium loti* (*Mesorhizobium loti*)

Q9A5F5

Rubredoxin {GENE:CC2495} - *Caulobacter crescentus*

Q9AE62

Rubredoxin reductase {GENE:RUBB} - *Rhodococcus erythropolis*

Q9AE64

Rubredoxin 1 {GENE:RUBA1} - *Rhodococcus erythropolis*

Q9AFD5

Alkane hydroxylase-rubredoxin {GENE:ALKB} - *Nocardioides* sp. CF8

Q9AL95

NADH-rubredoxin oxidoreductase (NAD(FAD)-dependent dehydrogenase, NirB-family) (N-terminal domain) {GENE:NROR OR CAC2448} - *Clostridium acetobutylicum*

Q9AQJ4

Rubredoxin reductase {GENE:RUBB} - *Acinetobacter* sp. M-1

Q9AQJ5

Rubredoxin {GENE:RUBA} - *Acinetobacter* sp. M-1

Q9FDN8

NAD⁺/rubredoxin oxidoreductase Rbo {GENE:RBO} - *Moorella thermoacetica* (*Clostridium thermoaceticum*)

Q9FDN9

Rubredoxin Rd {GENE:RUB} - *Moorella thermoacetica* (*Clostridium thermoaceticum*)

Q9HTK7

Rubredoxin {GENE:PA5351} - *Pseudomonas aeruginosa*

Q9HTK8

Rubredoxin {GENE:PA5350} - *Pseudomonas aeruginosa*

Q9HTK9

Probable rubredoxin reductase {GENE:PA5349} - *Pseudomonas aeruginosa*

Q9JQN3

Putative rubredoxin {GENE:NMA1201 OR NMB0993} - *Neisseria meningitidis* (serogroup A), *Neisseria meningitidis* (serogroup B)

Q9L4M8

Rubredoxin reductase {GENE:ALKT} - *Pseudomonas putida*

Q9PGC3

Rubredoxin {GENE:XF0379} - *Xylella fastidiosa*

Q9SLI4

F20D21.31 protein (At1g54500/F20D21_31) (Unknown protein) (Rubredoxin, putative)

{GENE:F20D21.31} - Arabidopsis thaliana (Mouse-ear cress)

Q9WWW4

Rubredoxin 2 {GENE:ALKG} - Pseudomonas putida

Q9WWW5

Rubredoxin 1 {GENE:ALKF} - Pseudomonas putida

Q9WXF8

Rubredoxin {GENE:RNOA1} - Rhodococcus sp. CIR2

Q9WZC7

Rubredoxin {GENE:TM0659} - Thermotoga maritima

Q9X709

Rubredoxin {GENE:RUB} - Clostridium cellulolyticum

Q9XG40

Rubredoxin {GENE:RUB} - Guillardia theta (Cryptomonas phi)

Q9ZAI2

Rubredoxin reductase - Acinetobacter calcoaceticus

in Swiss-Prot/TrEMBL by AC, ID, description,
gene name, organism

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Search in ENZYME for: thioredoxin

Release 33, October 2003, and updates up to 30-Nov-2003

Please choose one of the following entries:

1.8.1.9

Thioredoxin-disulfide reductase.
(AN: NADP-thioredoxin reductase.
NADPH-thioredoxin reductase.
Thioredoxin reductase (NADPH).
NADPH:oxidized thioredoxin oxidoreductase.)

1.8.4.8

Phosphoadenylyl-sulfate reductase (thioredoxin).
(AN: Phosphoadenosine-phosphosulfate reductase.
PAPS reductase, thioredoxin-dependent.
PAdoPS reductase.
Thioredoxin:adenosine 3'-phosphate 5'-phosphosulfate reductase.
3'-phosphoadenylylsulfate reductase.
Thioredoxin:3'-phospho-adenylylsulfate reductase.
PAPS sulfotransferase.
PAPS reductase.
Phosphoadenosine-phosphosulfate reductase.)

1.8.4.10

Adenylyl sulfate reductase (thioredoxin).
(AN: Thioredoxin-dependent 5'-adenylylsulfate reductase.)

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